

INTERNATIONAL SEARCH REPORT

Inter Application No
PCT/GB2004/002478

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C209/14 C07C209/16 C07B57/00 C07C211/27 C07C309/66
C07C29/143

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C07B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	W. H. PIRKLE ET AL.: "High pressure assisted synthesis." JOURNAL OF ORGANIC CHEMISTRY., vol. 42, no. 18, 1977, pages 3101-3103, XP002300103 USAMERICAN CHEMICAL SOCIETY, WASHINGTON, DC. page 3102, column 2 -----	1
Y	JAYARAM R. TAGAT ET AL.: "Piperazine-based CCR5 antagonists as HIV-1 inhibitors." JOURNAL OF MEDICINAL CHEMISTRY., vol. 44, no. 21, 2001, pages 3343-3346, XP002300104 USAMERICAN CHEMICAL SOCIETY. WASHINGTON. page 3344, scheme 2 ----- -/--	1-9, 11-16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

11 October 2004

Date of mailing of the international search report

16.02.2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00/66558 A (MCCOMBIE STUART W ; SMITH ELIZABETH M (US); CLADER JOHN W (US); SCHERI) 9 November 2000 (2000-11-09) page 80 - page 81 -----	1-9, 11-16
Y	WO 98/42643 A (MELLOR BEN J ; ZENECA LTD (GB); BLACKER ANDREW J (GB)) 1 October 1998 (1998-10-01) cited in the application page 5, line 15 - line 17; claims 1-24; examples 1-19 -----	1-9, 11-16
Y	US 5 767 276 A (ZHANG XUMU) 16 June 1998 (1998-06-16) cited in the application claims 1-35; table I -----	1-9, 11-16
Y	WO 99/24410 A (UNIV PENNSYLVANIA) 20 May 1999 (1999-05-20) cited in the application claim 1; tables 1,2 -----	1-9, 11-16
Y	US 6 391 865 B1 (MCCOMBIE STUART W ET AL) 21 May 2002 (2002-05-21) page 9, scheme 2 -----	1-9, 11-16
Y	BJÖRN M. NILSSON ET AL.: "Base-Catalysed cyclization of N-propargylamides to Oxazoles" JOURNAL OF HETEROCYCLIC CHEMISTRY, vol. 26, 1989, pages 269-275, XP002300105 page 272, column 2 -----	1,11
Y	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02, 2 April 2002 (2002-04-02) & JP 2001 294568 A (CENTRAL GLASS CO LTD), 23 October 2001 (2001-10-23) abstract -----	1,11
Y	WO 86/01502 A (DIAMALT AG) 13 March 1986 (1986-03-13) example 2 -----	1
X	DATABASE CROSSFIRE BEILSTEIN BEILSTEIN INSTITUT ZUR FOERDERUNG DER CHEMISCHEN WISSENSCHAFTEN, FRANKFURT AM MAIN, DE; Database-Accession no. 4377580 (ID) XP002300107 abstract & JOURNAL OF ORGANIC CHEMISTRY., vol. 60, no. 26, 1995, pages 8424-8427, USAMERICAN CHEMICAL SOCIETY, WASHINGTON, DC. -----	21
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>RANU B C ET AL: "Reduction of trihalomethyl carbinols and their acetates, mesylates and tosylates by indium metal"</p> <p>TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 43, no. 34, 19 August 2002 (2002-08-19), pages 5993-5995, XP004373219 ISSN: 0040-4039 table 1</p>	21
X	<p>THOMAS M. STEIN ET AL.: "Synthesis and aggregation properties of a new family of amphiphiles with an unusual headgroup topology"</p> <p>JOURNAL OF THE AMERICAN CHEMICAL SOCIETY., vol. 114, no. 10, 1992, pages 3943-3950, XP002300106 USAMERICAN CHEMICAL SOCIETY, WASHINGTON, DC. Scheme II; page 3948, column 2, paragraph 2</p>	21

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-17, 21, 22

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-17,21,22

Process for the preparation of an amine of formula (1)
wherein an intermediate compound having a leaving group OL
is reacting with ammonia and mesylate intermediates thereof

2. claim: 18

Alternative process for the preparation of a stereoisomer of
an alcohol compound of formula (14)

3. claims: 19,20

Alternative process for the diastereomeric salt resolution
of (S)-1-naphthylethylamine and diastereomeric salt thereof

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inter Application No
PCT/GB2004/002478

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